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1. N152-101: Amphibious Combat Vehicle Ramp Interface Modular Buoyant Kit (MBK) for Joint High Speed Vessel (JHSV) Stern Ramp

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The United States Marine Corps has advised the Navy that it needs to develop a light weight kit that can be readily attached to the JHSV's stern cargo ramp so that when the ramp is lowered directly into the water it would allow AAVs and ACVs to be launched and retrieved from the JHSV near the shore (splash-off). The Marine Corps needs a high speed shallow draft connector that can launch a dozen ...

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2. N152-102: Modular Boat Ramp to Launch and Retrieve Watercraft from Joint High Speed

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The JHSV's boat crane does not have the requisite man loading safety factor needed to allow the boat crew to remain on board during L&R. In order for small boats to debark from the JHSV, they must enter the water using the boat crane without the crew on board, and then the small boat must be positioned alongside the JHSV in a coordinated effort by the crane operator and members of the ship's c ...

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3. N152-103: Innovative Flexible Equipment Support Infrastructure

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

US Navy Destroyers need an equipment support infrastructure for several shipboard electronics and command spaces for a Common Processing System (CPS). The purpose of the flexible infrastructure (FI) is to provide equipment configuration flexibility and the ability to complete Command Center System modernization and upgrades at reduced cost (by 30 to 60 percent) (Ref 1) compared to fixed-system mo ...

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4. N152-104: Manufacturing Near-Net-Shape Conformal Electro-optic Sensor Window Blanks from Spinel

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Electro-optic sensor windows that conform to the local shape of an aircraft mold-line are desirable for future air platforms to allow for a large sensor angle of regard. Conformal shapes may have little to no symmetry depending upon their location. Spinel is an excellent material candidate as it is both durable and multi-spectral (ultraviolet through mid-wave infrared). Spinel is more erosion resi ...

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5. N152-105: Metrology of Visibly Opaque, Infrared-Transparent Aerodynamic Domes, Conformal Windows, and Optical Corrector Elements

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The function of electro-optical sensors is greatly impacted by the window’s properties. Survivability depends on material strength, hardness, and thermal properties. Targeting is limited by optical properties of the window material. Drag is reduced by aerodynamic shapes. The objective of this project is to create metrology methods and hardware to measure the optical figure and transmitted wavefr ...

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6. N152-106: Metrology of Visibly Transparent Large Aspheric Optics

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Aspheric optics represent the next generation in electro-optic sensor windows allowing for windows that conform to the local shape of an aircraft moldline, domes that reduce drag in missiles, and optical elements that correct for distortions produced by conformal windows and aerodynamic domes. The objective of this project is to develop metrology methods and hardware to measure the optical figure ...

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7. N152-107: Manufacturing of Visibly Transparent Large Conformal Windows

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Conformal electro-optic sensor windows are desirable for future air platforms as they maintain the shape of the aircraft moldline and allow for a large sensor angle of regard. Such windows may have little to no symmetry depending upon their location. Spinel is an excellent candidate window material as it is both durable and multi-spectral (ultraviolet through mid-wave infrared). Spinel is more ero ...

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8. N152-108: Accelerating Instructor Mastery (AIM)

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Educators typically study for four years at a university building a solid foundation of instructional knowledge. In addition, most educators also have observed practical experience before they instruct on their own. In contrast, active duty military instructors often don’t have the benefit of any education on how to instruct. They are often recently graduated students; although their content kno ...

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9. N152-109: Reliability Centered Additive Manufacturing Design Framework

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Additive Manufacturing (AM) offers the opportunity to fabricate equivalent (i.e. same fit/form/function) structures and components in a more cost effective manner and in ways that are not currently possible with subtractive, casting or other manufacturing approaches. Unfortunately, today there are only a limited number of AM components that can achieve complete equivalency to their original counte ...

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10. N152-110: Dive Helmet Communication System

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The current system being used is analog circuits (circa 1960's) with components to match. The communication components are susceptible to moisture and handling damage. Thus the existing communication system has reduced intelligibility in the varying noise levels of the current helmet. The diver helmet currently used by Navy divers (Kirby Morgan KM 37NS) has documented high noise levels from the br ...

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